For Research Use Only

Calsequestrin 2 Monoclonal antibody, PBS Only

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Catalog Number: 66419-1-PBS

Basic Information

Catalog Number: GenBank Accession Number:

66419-1-PBS BC022288 GeneID (NCBI):

100ug, Concentration: 1 mg/ml by

Nanodrop: **UNIPROT ID:** 014958 Mouse Full Name:

Isotype: calsequestrin 2 (cardiac muscle)

IgG2a Calculated MW: Immunogen Catalog Number: 46 kDa AG13246 Observed MW:

50 kDa

Applications

Tested Applications: WB, IF, IHC, Indirect ELISA Species Specificity:

human, rat, pig, mouse

Background Information

 $Calse questrin \, (CASQ) \, is \, a \, Ca2 + - binding \, protein \, present \, primarily \, in \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, in \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, reticulum \, of \, skeletal \, junctional \, sarcoplasmic \, junctional \, junctional$ and cardiac muscle; the cardiac form (CASQ2) is encoded by a separate gene. The primary role of CASQ2 is buffering of the sarcoplasmic reticulum Ca2+ ions, but another role for CASQ2 has emerged recently: CASQ2 regulates the open probability of ryanodine receptor 2 (RyR2). Mutations in CASQ2 cause stress-induced polymorphic ventricular tachycardia, also referred to as catecholaminergic polymorphic ventricular tachycardia 2 (CPVT2), a disease characterized by bidirectional ventricular tachycardia that may lead to cardiac arrest.

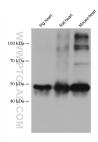
Storage

Store at -80°C. Storage Buffer: PBS Only

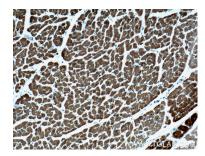
Purification Method: Protein A purification

CloneNo.: 1C10A1

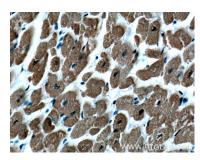
Selected Validation Data



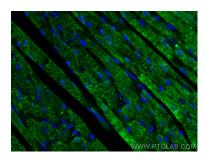
Various lysates were subjected to SDS PAGE followed by western blot with 66419-1-1g (Calsequestrin 2 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66419-1-PBS in a different storage buffer formulation



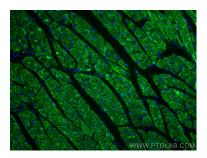
Immunohistochemical analysis of paraffinembedded human heart tissue slide using 66419-1-lg (Calsequestrin 2 antibody at dilution of 1:400 (under 10x lens). This data was developed using the same antibody clone with 66419-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human heart tissue slide using 66419-1-lg (Calsequestrin 2 antibody at dilution of 1:400 (under 40x lens). This data was developed using the same antibody clone with 66419-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Calsequestrin 2 antibody (66419-1-Ig, Clone: 1C10A1) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66419-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Calsequestrin 2 antibody (66419-1-Ig, Clone: 1C10A1) at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66419-1-PBS in a different storage buffer formulation.